

SAFETY DATA SHEET

SECTION 1 : IDENTIFICATION

Product Name: Manufacturer Name: Address:

General Phone Number: Customer Service Phone Number: Health Issues Information: (800) 551-7176 SDS Creation Date: SDS Revision Date:

Potassium Chloride for Injection Concentrate, USP Fresenius Kabi USA, LLC Three Corporate Drive Lake Zurich, Illinois 60047 (847) 550-2300 (888) 386-1300 September 22, 2010

SECTION 2 : HAZARD(S) IDENTIFICATION

June 01, 2015

GHS Pictograms:	
Signal Word:	WARNING.
GHS Class:	Eye Irritation. Category 2. Skin Irritation. Category 2.
Hazard Statements:	Causes serious eye irritation. Causes skin irritation.
Precautionary Statements:	Wash hands thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection. IF ON SKIN: Wash with plenty of water. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Specific treatment (see on this label). If skin irritation occurs: Get medical advice/attention. If eye irritation persists: Get medical advice/attention. Take off contaminated clothing and wash it before reuse.
Emergency Overview:	This product is intended for therapeutic use only when prescribed by a physician. Potential adverse reactions from prescribed doses and overdoses are described in the package insert.
Route of Exposure:	Inhalation Ingestion Eye contact Skin Absorption. Injection.
Potential Health Effects:	
Eye:	Contact with eyes may cause irritation.
Signs/Symptoms:	Side effects from therapeutic doses include: Nausea, vomiting, abdominal pain, and diarrhea. Reactions that may occur because of the solution or the technique of administration include: Febrile response, infection at the injection site, venous thrombosis or phlebitis extending from the site of injection, extravasation, hypervolemia, and hyperkalemia.
Aggravation of Pre-Existing Conditions:	In patients with renal insufficiency, administration of potassium chloride may cause potassium intoxication and life threatening hyperkalemia.
Potassium Chloride	

Signs/Symptoms:

Signs and symptoms of potassium intoxication include: Paresthesias of the extremities, flaccid paralysis, listlessness, mental confusion, weakness and heaviness of the legs, hypotension, cardiac arrhythmias, heart block, electrocardiographic abnormalities, and cardiac arrest.

SECTION 3 : COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS#	Ingredient Percent	EC Num.
Potassium Chloride	7447-40-7	149 mg/mL	
1ethylparaben	99-76-3	0.05 % for preserved products	
Propylparaben	94-13-3	0.005 % for preserved products	
Water for Injection	7732-18-5	Quantity Sufficient	

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SECTION 4 : FIRST AID MEASURES

Eye Contact:	Immediately flush eyes with plenty of water for at least 15 to 20 minutes. Ensure adequate flushing of the eyes by separating the eyelids with fingers. Get immediate medical attention.
Skin Contact:	Immediately wash skin with plenty of soap and water for 15 to 20 minutes, while removing contaminated clothing and shoes. Get medical attention if irritation develops or persists.
Inhalation:	If inhaled, remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel. Seek immediate medical attention.
Ingestion:	If conscious, flush mouth out with water immediately. Call a physician or poison control center immediately. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person.
Other First Aid:	For Adverse Event Information, please call (800) 551-7176.

SECTION 5 : FIRE FIGHTING MEASURES

Flash Point:	200 °F
Flash Point Method:	closed cup.
Auto Ignition Temperature:	Not established.
Lower Flammable/Explosive Limit:	Not established.
Upper Flammable/Explosive Limit:	Not established.
Fire Fighting Instructions:	Evacuate area of unprotected personnel. Use cold water spray to cool fire exposed containers to minimize risk of rupture. Do not enter confined fire space without full protective gear. If possible, contain fire run-off water.
Extinguishing Media:	Use alcohol resistant foam, carbon dioxide, dry chemical, or water fog or spray when fighting fires involving this material. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Protective Equipment:	As in any fire, wear Self-Contained Breathing Apparatus (SCBA), MSHA/NIOSH (approved or equivalent) and full protective gear.
Hazardous Combustion Byproducts:	Thermal decomposition products may include smoke and toxic fumes. Oxides of carbon, oxides of nitrogen and other organic substances may be formed. Other undetermined low molecular weight hydrocarbon compounds may be released in small quantities depending upon specific conditions of combustion.

SECTION 6 : ACCIDENTAL RELEASE MEASURES

Personnel Precautions:	Evacuate area and keep unnecessary and unprotected personnel from entering the spill area. Avoid personal contact and breathing vapors or mists. Use proper personal protective equipment as listed in Section 8.
Environmental Precautions:	Avoid runoff into storm sewers, ditches, and waterways.
Methods for containment:	Contain spills with an inert absorbent material such as soil, sand or oil dry.
Methods for cleanup:	Absorb spill with inert material (e,g., dry sand or earth), then place in a chemical waste container. After removal, flush spill area with soap and water to remove trace residue.

SECTION 7 : HANDLING and STORAGE

Handling:	When handling pharmaceutical products, avoid all contact and inhalation of vapor, mists and/or fumes. Use with adequate ventilation. Use only in accordance with directions.
Storage:	Store at controlled room temperature 20 to 25°C (68 to 77°F). [See USP Controlled Room Temperature].
Work Practices:	Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.
Hygiene Practices:	Wash thoroughly after handling. Avoid contact with eyes and skin. Avoid inhaling vapor or mist.

SECTION 8: EXPOSURE CONTROLS, PERSONAL PROTECTION

Engineering Controls:	General ventilation is sufficient if this product is being used in a controlled medical setting (clinic, hospital, medical office) for its sole intended parenteral (injection) purpose. Otherwise, use appropriate engineering control such as process enclosures, local exhaust ventilation, or other engineering controls including use of a biosafety cabinet / fume hood to control airborne levels below recommended exposure limits.
Eye/Face Protection:	Chemical splash goggles. Wear a face shield also when splash hazard exist.
Skin Protection Description:	Protective laboratory coat, apron, or disposable garment recommended.
Hand Protection Description:	Wear appropriate protective gloves. Consult glove manufacturer's data for permeability data. Nitrile rubber or natural rubber gloves are recommended.
Respiratory Protection:	No personal respiratory protective equipment is normally required when this product is being used/administered by a licensed healthcare practitioner (i.e. an end-user such as a clinician / doctor / nurse) for its sole intended parenteral (injection) purpose in a controlled medical setting. The need for respiratory protection will vary according to the airborne concentrations and environmental conditions. A

EXPOSURE GUIDELINES

Other Protective:

SECTION 9 : PHYSICAL and CHEMICAL PROPERTIES		
Physical State:	Liquid solution.	
Color:	Colorless.	
Odor:	Odorless.	
Boiling Point:	Not established.	
Melting Point:	773°C	
Solubility:	Soluble. in water.	
Vapor Density:	Not established.	
Vapor Pressure:	Not established.	
Percent Volatile:	Not established.	
pH:	4.0 - 8.0	
Molecular Formula:	Mixture	
Molecular Weight:	74.55	
Flash Point:	200 °F	
Flash Point Method:	closed cup.	
Auto Ignition Temperature:	Not established.	

SECTION 10 : STABILITY and REACTIVITY

Chemical Stability:	Stable under normal temperatures and pressures.
Hazardous Polymerization:	Not reported.
Conditions to Avoid:	No conditions contributing to instability are known to exist for normal handling of this product.

SECTION 11 : TOXICOLOGICAL INFORMATION

Potassium Chloride :	
RTECS Number:	TS8050000
Eye:	Eye - Rabbit Standard Draize test.: 500 mg/24H
Ingestion:	Oral - Mouse LD50: 1500 mg/kg [Details of toxic effects not reported other than lethal dose value] Oral - Rat LD50: 2600 mg/kg [Details of toxic effects not reported other than lethal dose value]
Other Toxicological Information:	Intravenous Rat LD50: 142 mg/kg [Behavioral - convulsions or effect on seizure threshold Lungs, Thorax, or Respiration - dyspnea] Intravenous Mouse LD50: 117 mg/kg [Details of toxic effects not reported other than lethal dose value] Intravenous Guinea pig LDLo: 77 mg/kg [Details of toxic effects not reported other than lethal dose value] Intravenous Rat LD50: 142 mg/kg [Details of toxic effects not reported other than lethal dose value] Intravenous Rat LD50: 142 mg/kg [Details of toxic effects not reported other than lethal dose value] Intraperitoneal Guinea pig LDLo: 2550 mg/kg [Details of toxic effects not reported other than lethal dose value] Intraperitoneal Guinea pig LDC: 900 mg/kg [Behavioral - changes in motor activity (specific assay) Behavioral - coma Lungs, Thorax, or Respiration - other changes] Intraperitoneal Rat LD50: 660 mg/kg [Details of toxic effects not reported other than lethal dose value]
Methylparaben :	
RTECS Number:	DH2450000
Skin:	Administration onto the skin - Rabbit Standard Draize test.: 0.1 mL/24H Administration onto the skin - Rabbit Standard Draize test.: 0.5 mL/21D (Intermittent) Administration onto the skin - Rat TDLo: 374.92 gm/kg/13W (Intermittent) [Nutritional and Gross Metabolic - Weight loss or decreased weight gain Blood - Other changes]
Ingestion:	Oral - Mouse LD50: >8 gm/kg [Peripheral Nerve and Sensation - Flaccid paralysis without anesthesia (usually neuromuscular blockage) Behavioral - Ataxia] Oral - Mouse LD50: >8000 mg/kg [Behavioral - Ataxia] Oral - Rat LD50: 2100 mg/kg [Details of toxic effects not reported other than lethal dose value]
Other Toxicological Information:	Intravenous Mouse TDLo: 100 mg/kg [Vascular - shock Lungs, Thorax, or Respiration - respiratory depression] Intravenous Mouse TDLo: 2.5 mg/kg [Lungs, Thorax, or Respiration - tumors] Subcutaneous - Mouse TDLo: 165 mg/kg [Behavioral - ataxia Lungs, Thorax, or Respiration - respiratory depression] Subcutaneous - Mouse LD50: 1.2 gm/kg [Details of toxic effects not reported other than lethal dose value]

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	Subcutaneous - Rat LD50: >500 mg/kg [Details of toxic effects not reported other than lethal dose value] Subcutaneous - Mouse TDLo: 49.5 mg/kg/3D (intermittent) [Related to Chronic Data - changes in uterine weight] Subcutaneous - Mouse TDLo: 165 mg/kg/3D (intermittent) [Reproductive - Maternal Effects - uterus, cervix, vagina Related to Chronic Data - changes in uterine weight] Intraperitoneal Mouse LD50: 960 mg/kg [Peripheral Nerve and Sensation - flaccid paralysis without anesthesia (usually neuromuscular blockage) Behavioral - somnolence (general depressed activity) Behavioral - ataxia] Intraperitoneal Mouse LD50: 125 mg/kg [Details of toxic effects not reported other than lethal dose value] Intraperitoneal Rat LD50: 960 mg/kg [Details of toxic effects not reported other than lethal dose value]
Propylparaben :	
RTECS Number:	DH2800000
Ingestion:	Oral - Mouse LD50: 6332 mg/kg [Details of toxic effects not reported other than lethal dose value]
Other Toxicological Information:	Subcutaneous - Mouse LD50: 1650 mg/kg [Details of toxic effects not reported other than lethal dose value] Subcutaneous - Mouse TDLo: 51 mg/kg/3D (intermittent) [Related to Chronic Data - changes in uterine weight] Subcutaneous - Rat TDLo: 99 mg/kg/3D (intermittent) [Related to Chronic Data - changes in uterine weight] Subcutaneous - Mouse TDLo: 195 mg/kg/3D (intermittent) [Reproductive - Maternal Effects - uterus, cervix, vagina Related to Chronic Data - changes in uterine weight] Intraperitoneal Mouse LD50: 200 mg/kg [Details of toxic effects not reported other than lethal dose value]

Ecotoxicity:	No ecotoxicity data was found for the product.
Environmental Stability:	No environmental information found for this product.

SECTION 13 : DISPOSAL CONSIDERATIONS

Waste Disposal:

Dispose of in accordance with Local, State, Federal and Provincial regulations.

SECTION 14 : TRANSPORT INFORMATION

DOT Shipping Name:	Not Regulated.
DOT UN Number:	Not Regulated.

SECTION 15 : REGULATORY INFORMATION

Potassium Chloride :		
TSCA Inventory Status:	Listed	
EINECS Number:	231-211-8	
Canada DSL:	Listed	
Methylparaben :		
TSCA Inventory Status:	Listed	
EINECS Number:	202-785-7	
Canada DSL:	Listed	
Propylparaben :		
TSCA Inventory Status:	Listed	
EINECS Number:	202-307-7	
Canada DSL:	Listed	
Water for Injection :		
TSCA Inventory Status:	Listed	
Canada DSL:	Listed	

SECTION 16 : ADDITIONAL INFORMATION

HMIS Ratings:			
HMIS Health Hazard:	1		
HMIS Fire Hazard:	1		
HMIS Reactivity:	0		
HMIS Personal Protection:	х		
SDS Creation Date:		September 22, 2010	

Potassium Chloride for Injection Concentrate, USP Revision: 06/01/2015 Disclaimer:

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